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SIA R-1617

Sci - Chem
Aug 58

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FTD TT 65-1316

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Mar 67

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An Approximate Method for the Calculation of the
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of a Stratum, by U. P. Zheltov,

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ATS RJ-944

Sci - Eng
Jul 59

91, 250

Plaksin, I. N., Startchik, L. P., and
Turnikova, V. I.
MÉTHODE DE L'AUTORADIOGRAPHIE POUR ÉTUD-
IER LA RÉPARTITION DES REACTIFS DE FLOT-
TATION SUR LA SURFACE DES PARTICULES DE
MINÉRAIS SULFURÉS, tr. by M. B. De Trezvinaky.
8 Nov 59 [9]p. 5 refs. CEA Trans. no. R 770 (text in
French).
Order from OTS or SLA \$1.10 61-23742

Trans. in French of Akad[emiya] Nauk SSSR. Otdel[enie]
Tekhnicheskikh Nauk. Izvesti[ya] 1957, no. 3,
p. 187-189.

DESCRIPTORS: *Flotation, Sulfur, *Sulfides, *Auto-
radiography, Particles, Chemical reactions, Ores,
*Minerals.

(Metallurgy, TT, v. 6, no. 6)

61-23742

I. Plaksin, I. N.
II. Startchik, L. P.
III. Turnikova, V. I.
IV. CEA-tr-R770
V. Commissariat à l'Énergie
Atomique (France)

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NASA TT F-8708

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During Solidification as Function of Composition of
Alloy, by A. A. Bochvar, Z. A. Sviderskaya. UNCL

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*HB 4806

Sci - Min/Met
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NASA TT F-63

National Aeronautics and Space Administration.

EFFECT OF PERIODIC OSCILLATIONS OF
VELOCITY AND DENSITY OF A MEDIUM ON
DISINTEGRATION OF LIQUID JETS. (Vliyanie
periodicheskikh kolebanii skorosti i plotnosti sredy
na raspad zhidkikh struy.) I. F. Dityakin and V. I.
Yagodkin. April 1961. 11p. OTS price, \$0.50.
(NASA TECHNICAL TRANSLATION F-63. Transla-
tion from Akademiia Nauk SSSR, Izvestiia, Otdelenie
Tekhnicheskikh Nauk, no. 4, 1957, p. 115-120.)

The influence of the oscillations of the velocity in a
liquid jet and the density of the medium surrounding
a cylindrical jet, on the disintegration of the jet, is
considered theoretically. The method of small per-
turbations beginning with the velocity potential
equation is used. The following conclusions were
derived: (a) during the oscillations of the velocity of
a liquid jet the character and the length of the waves
of the unstable perturbations are subject to change
and there appears a great number of separate

Copies obtainable from NASA, Washington (over)

- I. Dityakin, I. F.
- II. Yagodkin, V. I.
- III. NASA TT F-63
- IV. Akademiia Nauk SSSR,
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no. 4, 1957, p. 115-120

(Initial NASA distribution:
20, Fluid mechanics;
37, Propulsion system
elements; 39, Propulsion
systems, liquid-fuel
rockets.)

NASA

The Corrosion of Steel Covered by Films
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E. I. Gurovich, and A. S. Sosnina, 4 pp.

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25 refs. ARGMA Trans. nr. 59-61.
Order from OTS or SLA \$3.60

61-28836

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cheskikh] Nayk. Izvestiya, 1957, no. 8, p. 20-34.

DESCRIPTORS: *Plasticity, *Elasticity, Cylindrical
bodies, Elastic shells, Metals, Stresses, Deformation

The theory of heterogeneous elastic-plastic bodies is
applied to the problem of an heterogeneous, hollow,
eccentric, cut cylinder and to the adjacent problem of
the heterogeneous half-plane with a circular opening.
Some of its further applications are briefly examined.

(Physics--Solid State, TT, v. 7, no. 8)

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- I. Olshak, V.
- II. ARGMA Trans-59-61
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Arsenal, Ala.

201500

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The Feasibility of Using Ultrasound for Freeing
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Sci - Phys

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RT-3337

(Metallurgy, TT, v. 5 no. 10)

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- I. Glembotskiy, V. A.
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CTS TT-62-28917

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on the occasion of the celebration of the
 100th anniversary of the Russian Revolution, 1917-1918.
 Moscow, U.S.S.R. 1917-1918. 0001. 0001. 0001.

100th anniversary of the Russian Revolution, 1917-1918.
 Moscow, U.S.S.R. 1917-1918. 0001. 0001. 0001.

SLA 60-13812
 0001. 0001. 0001.

(100th)

108,389

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 100. 00

Ber, L. E.

CONTRIBUTION A LA THEORIE DE LA CONVECTION THERMOGRAVITATIONNELLE EN REGIME TURBULENT [K Teorii Termogravitatsionnoi Konvektzii v Usloviyakh Turbulentnogo Rezhima] [On the Theory of Thermo-Gravitational Convection Under Conditions of Turbulence] tr. by M. B. Vinogradoff. 15 Dec 59 [18]p. 4 refs. CEA Trans. no. R 786 (text in French).

Order from OTS or SLA \$1.60

61-23731

Trans. in French of Akad[emiya] Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvest[iya] 1957, no. 11, p. 75-83.

DESCRIPTORS: *Convection, *Heat transfer, *Turbulent flow, Conductivity, Thermodynamics, USSR, Theory, Hydrodynamics, Viscosity.

Approximate equations are derived which express the (Physics--Thermodynamics, TT, v. 6, no. 6) (over)

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The Theory of Thermo-Gravitational Convection
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Study of the Physical Processes in a Shock
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5 pp.

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The Effect of ~~D₂~~ Oxygen on the Interaction of
Sulphide Minerals With Xanthogenate in the
Presence of Sodium Sulphide, by D. Nai-lyan,
et al.

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AEC 3465

Sci - Min/Mot

Jan 59

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Certain Problems of Heating of an Infinite Plate
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